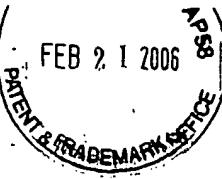
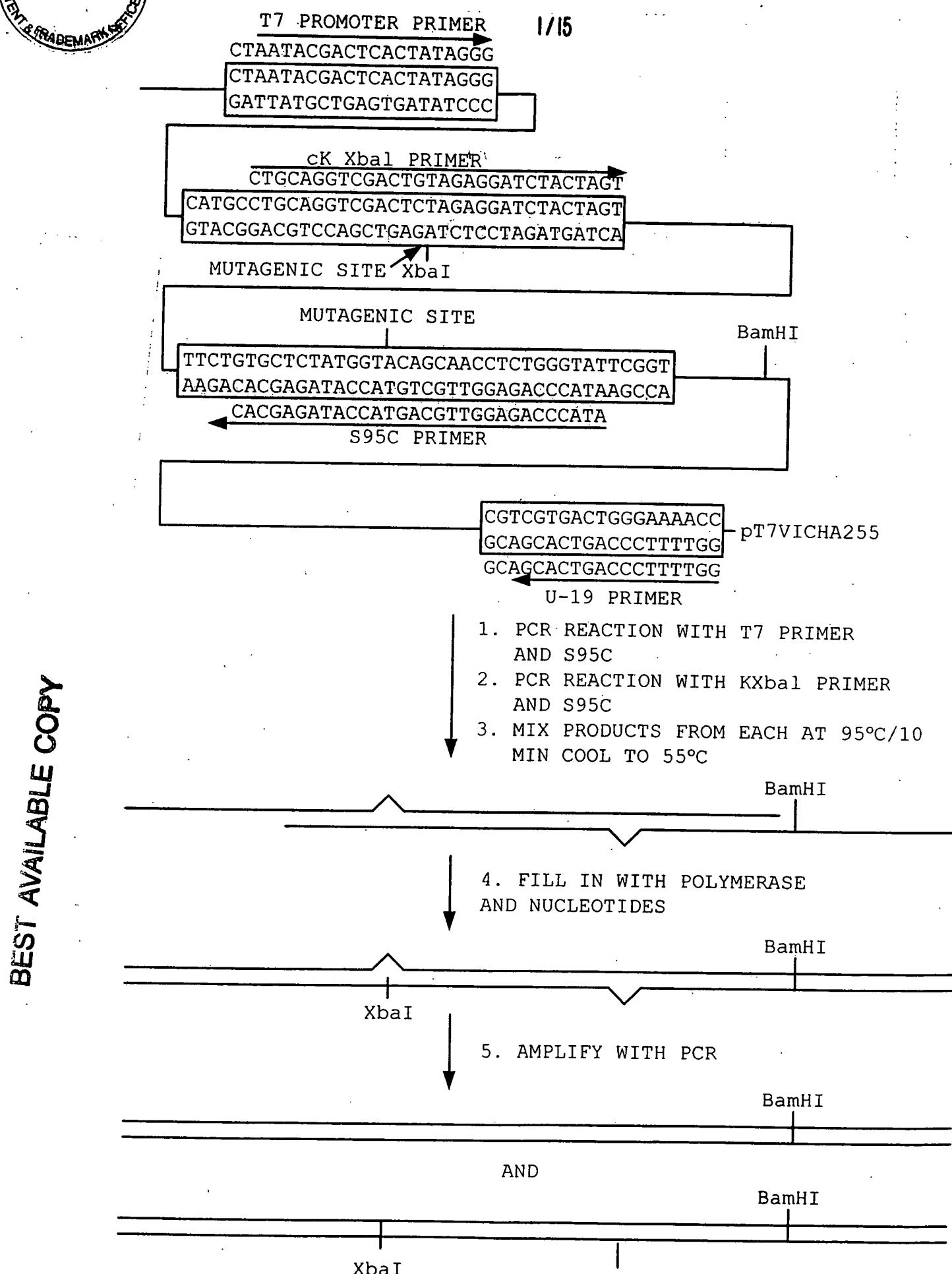


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**FIG. 1.**

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XbaI

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GGTGCCTC GAG TCT GGG GGA GAC TCA GTG
GAA GTG ACG CTG GTG GAG TCT GGG GGA GAC TCA GTG AAG CCT GGA GGG TCC CTG AAA CTC
CTT CAC TGC GAC CAC CTC AGA CCC CCT CTG AGT CAC TTC GGA CCT CCC AGG GAC TTT GAG
Glu Val Thr Leu Val Glu Ser Gly Gly Asp Ser Val Lys Pro Gly GLY Ser Leu Lys Leu
FR1

```

```

TCC TGT GCA GCC TCT GGA TTC ACT TTA AGT GGT GAA ACC ATG TCT TGG GTT CGC CAG ACT
AGG ACA CGT CGG AGA CCT AAG TGA AAT TCA CCA CTT TGG TAC AGA ACC CAA GCG GTC TGA
Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Gly Glu Thr Mel Ser Trp Val Arg Gln Thr
CDR1 FR2

```

```

CCG GAG AAG AGG CTG GAG TGG GTC GCA ACC ACT CTT AGT GGT GGT TTC ACC TTC TAT
GGC CTC TTC TCC GAC CTC ACC CAG CGT TGG TGA GAA TCA CCA CCA AAG TGG AAG ATA
Pro Glu Lys Arg Leu Glu Trp Val Ala Thr Thr Leu Ser Gly Gly Phe Thr Phe Tyr
CDR2 FR3

```

**FIG. 2A.**

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CTA CAA CTG AAT AGT CTG AGG TCT GAG GAC ACG GCC TTG TAT TTC TGT GCA AGT CAT CGG  
GAT GTT GAC TTA TCA GAC TCC AGA CTC CGC TGC CGG AAC ATA AAG ACA CGT TCA GTA GCC  
Leu Gln Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Phe Cys Ala Ser His Arg

CDR3

TTT GTT CAC TGG GGC CAC GGG ACT CTG GTC ACT GTC TCT GCA CGG AAA ACG ACA CCC CCA  
AAA CAA GTG ACC CCG GTG CCC TGA GAC CAG TGA CAG AGA CGT CGG TTT TGC TGT GGG GGT  
Phe Val His Trp Gly His Gly Thr Val Leu Val Ser Ala Ala Lys Thr Thr Pro Pro

FR4

CCCCGGAGG  
Apal  
AGA CGT CGG TTT TGC TG  
TCT GCA GCC AAA ACG ACA CCC CCA  
CGT CGG TTT TGC TGT GGG GGT  
Ala Lys Thr Thr Pro Pro

CH1

FIG. 2B.

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SstI

CTCAGAGCTC

GCT	GTT	GTG	ACT	CAG	GAA	TCT	GCA	CTC	ACC	ACA	TCA	CCT	GGT	GAA	ACA	GTC	ACA	CTC	ACT
CGA	CAA	CAC	TGA	GTC	CTT	AGA	CGT	GAG	TGG	TGT	AGT	CCA	CTT	TGT	CAG	TGT	GAG	TGA	
Ala	Val	Val	Thr	Gln	Glu	Ser	Ala	Ieu	Thr	Ser	Pro	Gly	Glu	Thr	Val	Thr	Leu	Thr	

FR1

TGT	CGC	TCA	AGT	ATT	GGG	GCT	GTT	ACA	ACT	AGT	AAC	TAT	GCC	AAC	TGG	GTC	CAA	GAA	AAA
ACA	GGG	AGT	TCA	TAA	CCC	CGA	CAA	TGT	TGA	TCA	TTG	ATA	CGG	TTG	ACC	CAG	GTC	CTT	TTT
Cys	Arg	Ser	Ser	Ile	Gly	Ala	Val	Thr	Thr	Ser	Asn	Tyr	Ala	Asn	Trp	Val	Gln	Glu	Lys

CDR1

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CCA	GAT	CAT	TTA	TTC	ACT	GGT	CTA	ATA	GGT	ACC	AAT	AAC	CGG	GCT	CCG	GGT	GTT	CCT	
GGT	CTA	GTA	AAT	AAG	TGA	CCA	GAT	TAT	CCA	CCA	TGG	TGA	TTG	GCC	CGA	GTC	CCA	CAA	GGA
Pro	Asp	His	Leu	Phe	Thr	Gly	Ile	Gly	Ile	Gly	Thr	Asn	Asn	Arg	Ala	Pro	Gly	Val	Pro

CDR2

FR2

GCC	AGA	TTC	TCA	GGC	TCC	CTG	ATT	GGA	GAC	AAG	GCT	GCC	CTC	ACC	ATC	ACA	GGG	GCA	CAG
CGG	TCT	AAG	AGT	CCG	AGG	GAC	TAA	CCT	CTG	TTC	CGA	CGG	GAG	TGG	TAG	TGT	CCC	CGT	GTC
Ala	Arg	Phe	Ser	Gly	Ser	Ile	Gly	Asp	Lys	Ala	Ala	Leu	Thr	Ile	Thr	Ile	Gly	Ala	Gln

CDR3

**FIG. 3A.**

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ACT	GAA	GAT	GAG	GCA	AGA	TAT	TTC	TGT	GCT	CTA	TCG	TAC	TGC	AAC	CTC	TGG	GTG	TTC	GGT
TGA	CTT	CTA	CTC	CGT	TCT	ATA	AAG	ACA	CGA	GAT	ACC	ATG	ACG	TTG	GAG	ACC	CAC	AAG	CCA
Thr	Glu	Glu	Asp	Glu	Ala	Arg	Tyr	Phe	Cys	Ala	Tyr	Leu	Trp	Tyr	Cys	Asn	Leu	Trp	Val

CDR3 EBA

CGTACGGCTC

CGTACGGCTC

CCC	TCC	TCT	GAA	GAG	CTA	AGC	TTG	GGA	ATC	GGA	TTC	CCG	GG	
GGC	GGG	AGG	AGA	CTT	CTC	GAT	TCG	AAC	CCT	TAG	CCT	AAG	GGC	CC
Pro	Pro	Ser	Ser	Glu	Glu	Leu	Ser	Leu	Gly	Ile	Gly	Phe	Pro	Gly

ER4

三

**FIG. 3B.**

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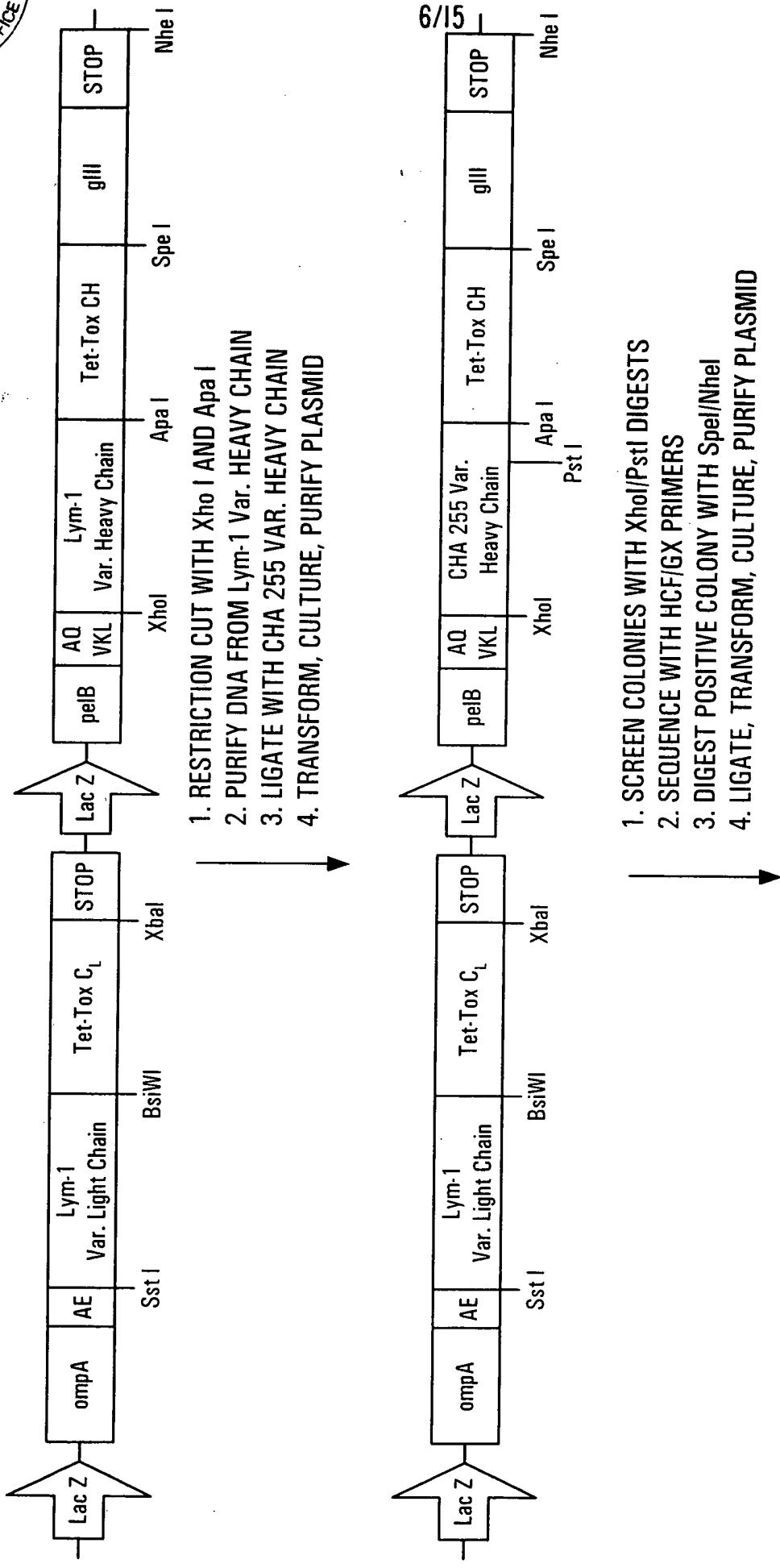
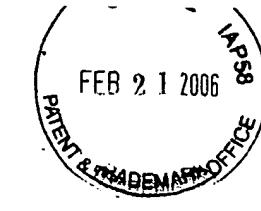


FIG. 4A.

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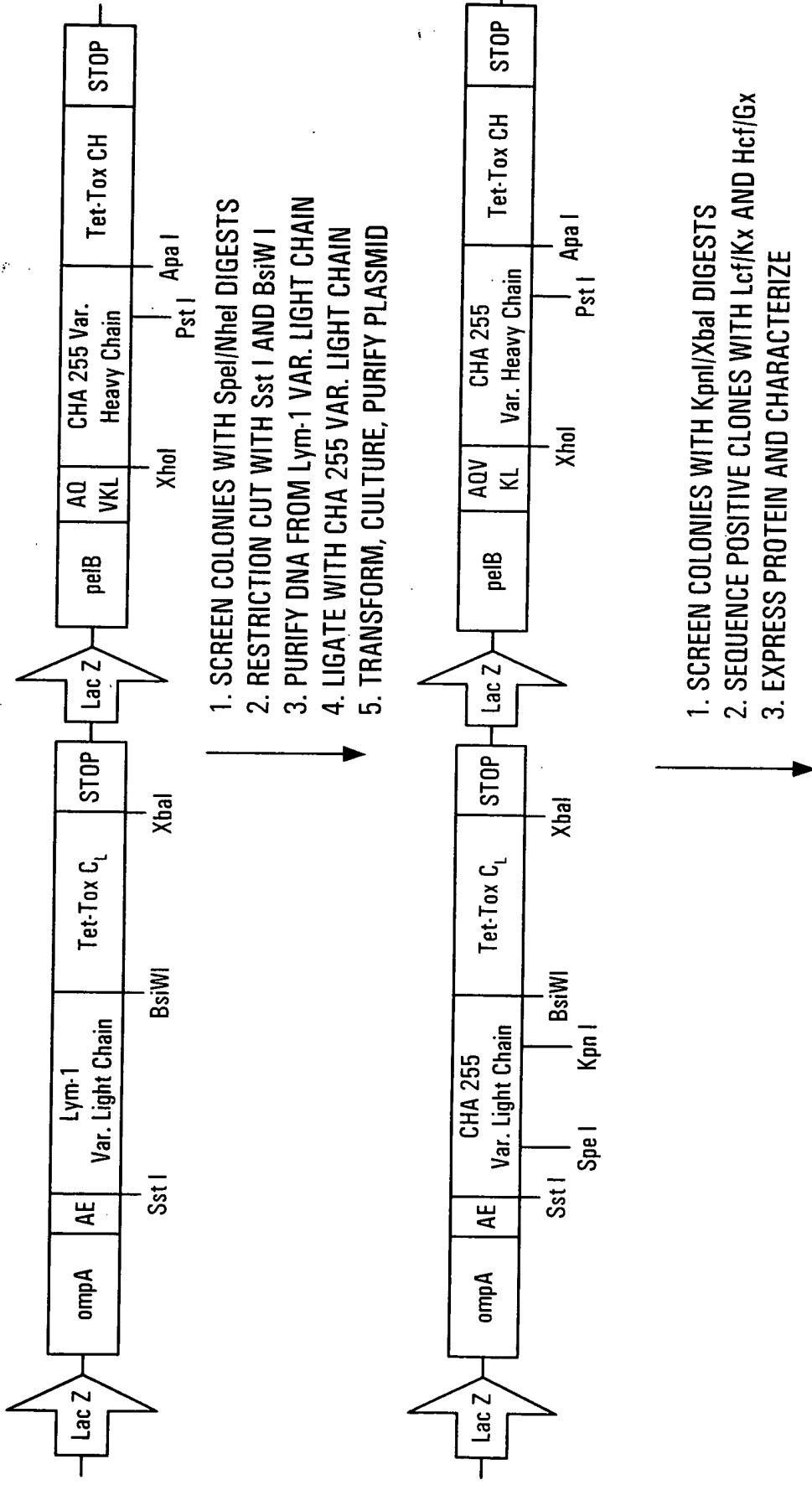


FIG. 4B.

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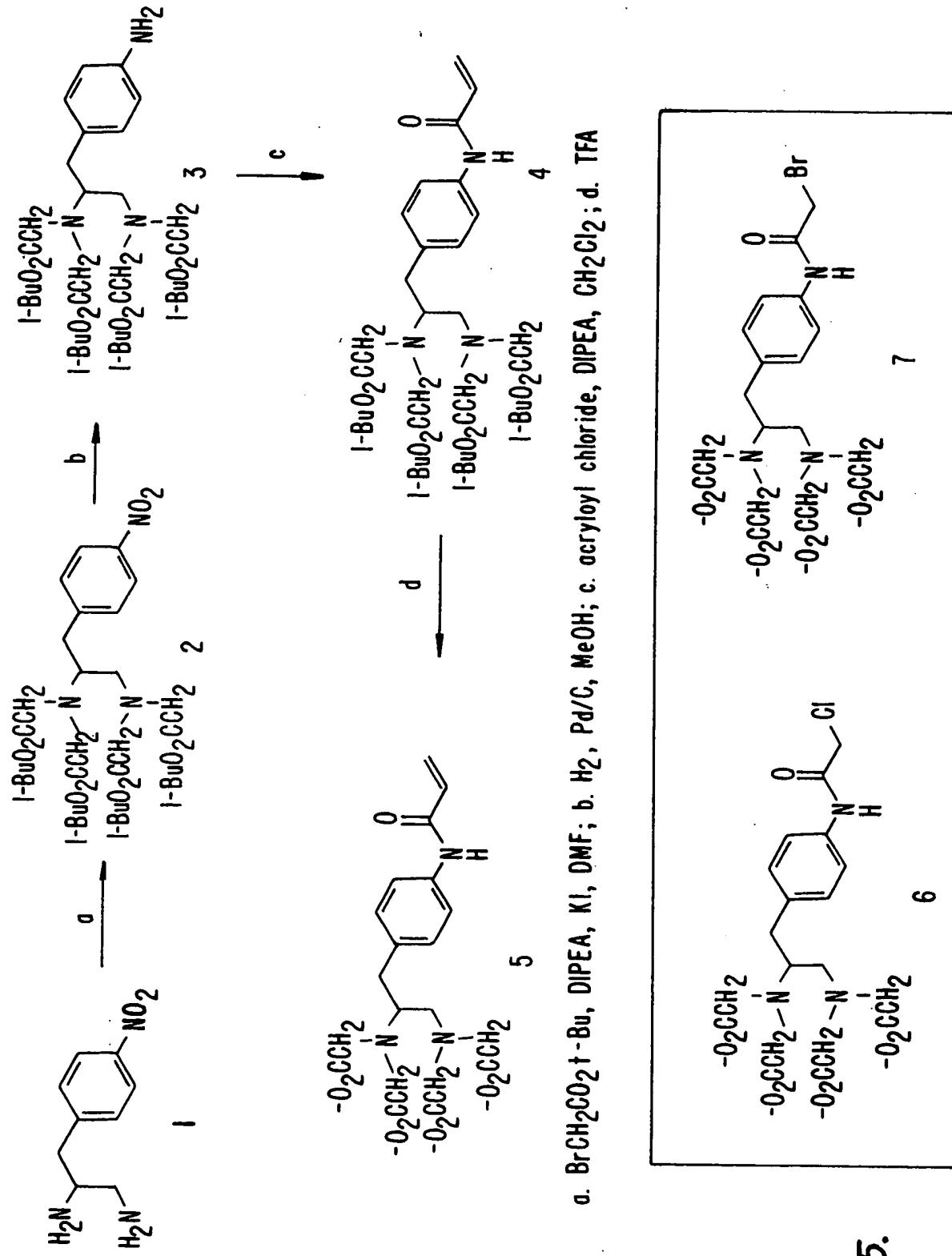


FIG. 5.



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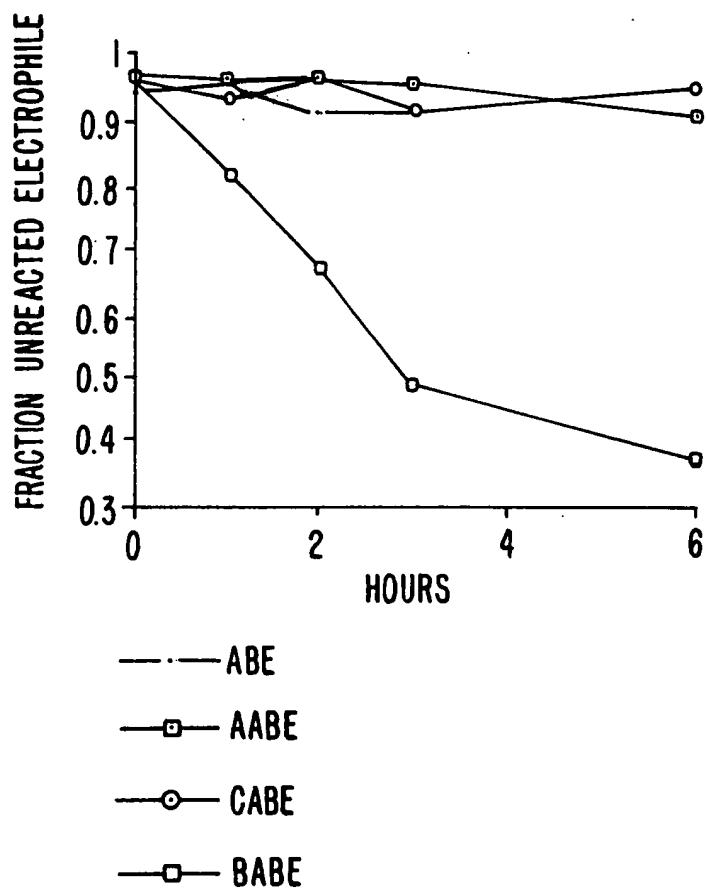


FIG. 6.

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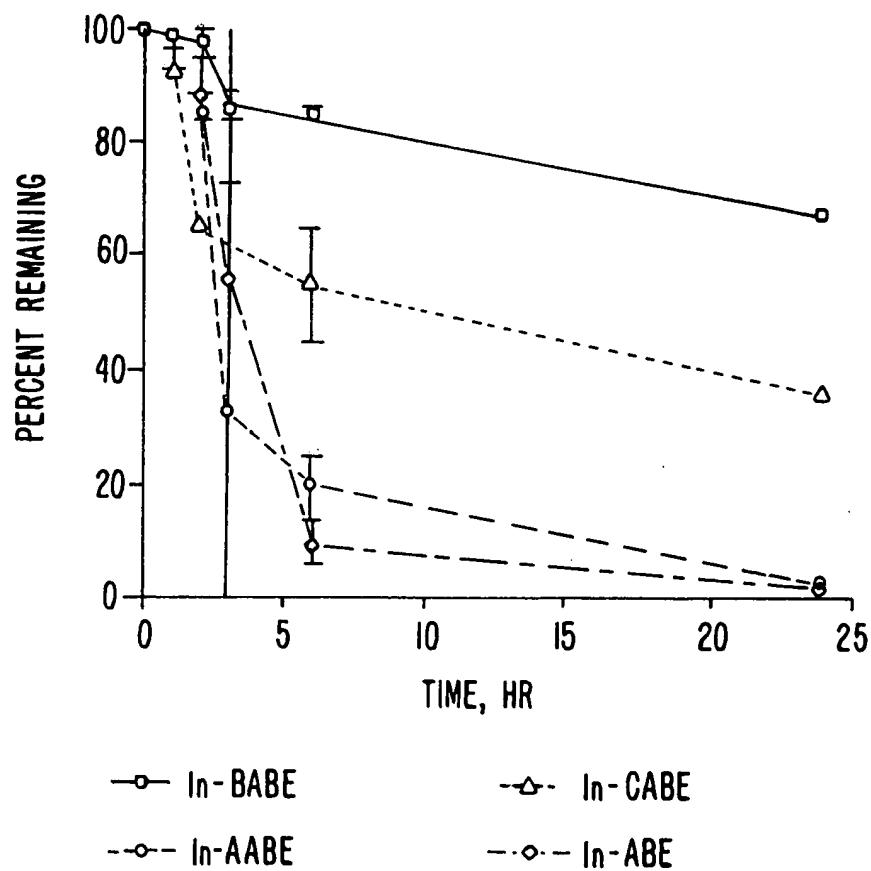


FIG. 7

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AGATCTGAAGTGACGCTGGAGTCTGGGGAGACTCAGTGAAGCCTGGAGGGTC  
CCTGAAACTCTCCTGTGCAGCCTCTGGATTCACTTAAGTGGTCAAACCATGTCTG  
GGTCGCCAGACTCCGGAGAAGAGGCTGGAGTGGTOGCAACCACCTTAGTGGT  
GTGGTTCACCTCTATTCAAGCCAGTGTGAAGGGCTTCAACCACCTCCAGAGACA  
ATGCCAGAACAAACCTCTATCTACAACACTGAATAGTCTGAGGTCTGAGGACACGGCCT  
TGTATTCTGTGCAAGTCATCGGTTGTTCACTGGGCCACGGACTCTGGTCACTG  
TCTCTGCAGCCAAAACGAOACCCCCATCGGTCTTCCCCCTGGCACCCCTCCAAGA  
GCACCTCTGGGGCACAGCGGCCCTGGCTGCCTGGTCAAGGACTACTCCCCGAAC  
CGGTGACGGTGTGCGTGGAACTCAGGCCTGACCAGCGCGTGCACACCTCCGG  
CTGTCCTACAGTCCTCAAGACTCTACTTCCTCAGCAGCGTGGTACCGTGCCCTCA  
ACAGCTGGCACCCAGACCTACATGCAACGTGAATCACAAGCCCAGCAACACC  
AAGGTGGACAAGAAAGCAGAGCCAAATCTTGTGACAAATCTAGAGGGCCCTCGA  
AGGTAAAGCCTATCCCTAACCCCTCTCCTCGGTCTGATTCTACGCGTACCGGTATCA  
TCACCATCACCATTGA

**FIG. 8.**

AGATCTGCTGTTGACTCAGGAATCTGCACTCACCATCACCTGGTAAACAGTC  
ACACTCACTGTCGCTCAAGTATTGGGGCTTACAACACTAGTAACATGCCAAGTGG  
GTCCAAGAAAAACCAAGATCATTATTCACTGGTCTAATAGGTGGTACCAATAACCGG  
GCTCCGGGTGTTCTGCCAGATTCTCAGGCTCCCTGATTGGAGACAAGGCTGCCCTC  
ACCATCACAGGGGCACAGACTGAAGATGAGGCAAGATAATTCTGTGCTCTGGTA  
CTCCTGCCTCTGGTRTTGGTGGAGGAACCAACTGACTGTCCTAACGCCWACKGT  
GGCTGCACCATCTGTCTTCATCTCCGCCATCTGATGAGCAGTTGAAATCTGGAAC  
TGCCTCTGTTGTGCGCTGCTGAATAACTCTATCCCAGAGAGGCCAAAGTACAGTG  
GAAGGTGGATAACGCCCTCCAATCGGTAACCTCCAGGAGAGTGTACAGAGCAGG  
ACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCGTACGCTGAGCAAAGCAGAC  
TACGAGAAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCTGAGYTYGCC  
CGTCACAAAGAGCTAACAGGGGAGAGTGTAA

**FIG. 9.**

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AGATCTGCTGTTGACTCAGGAATCTGCACTCACCATCACCTGGTAAACAGTC  
ACACTCACTTGTGCTCAAGTATTGGGGCTGTTACAACTAGTAACATGCCAAGTGG  
GTCCAAGAAAAACCAGATCATTATTCACTGGTCTAATAGGTGGTACCAATAACCGG  
GCTCCGGGTGTTCTGCCAGATTCTCAGGCTCCCTGATTGGAGACAAGGCTGCCCTC  
ACCATCACAGGGGCACAGACTGAAGATGAGGCAAGATATTCTGTGCTATGGTA  
CTCCAACCTCTGGGTGTTGGAGGAACCAAACGTACTGTCTAACGCCAGCCC  
AGTCTTCGCCATCAGTCACCCCTGTTCCGCCCTCCTCTGAAGAGCTAACGCTGGAA  
TCGGATTGCCGGGTGCTGAATAACCTCTATCCCAGAGAGGCCAAAGTACAGT  
GGAAGGTGGATAACGCCCTCCAATCGGGTAACCTCCCAGGAGAGTGTACAGAGCAG  
GACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAGCAAAGCAGA  
CTACGAGAAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCCTGAGYTYGC  
CCGTACAAAGAGCTAACAGGGAGAGTGTAA

**FIG. 10.**

AGATCTGCTGTTGACTCAGGAATCTGCACTCACCATCACCTGGTAAACAGTC  
ACACTCACTTGTGCTCAAGTATTGGGGCTGTTACAACTAGTAACATGCCAAGTGG  
GTCCAAGAAAAACCAGATCATTATTCACTGGTCTAATAGGTGGTACCAATAACCGG  
GCTCCGGGTGTTCTGCCAGATTCTCAGGCTCCCTGATTGGAGACAAGGCTGCCCTC  
ACCATCACAGGGGCACAGACTGAAGATGAGGCAAGATATTCTGTGCTATGGTA  
CTCCAACCTCTGGGTGTTGGAGGAACCAAACGTACTGTCTAACGCCAGCCC  
AGTCTTCGCCATCAGTCACCCCTGTTCCGCCCTCCTCTGAAGAGCTAACGCTGGAA  
TCGGATTCCCAGGGTGCTGAATAACCTCTATCCCAGAGAGGCCAAAGTACAGT  
GGAAGGTGGATAACGCCCTCCAATCGGGTAACCTCCCAGGAGAGTGTACAGAGCAG  
GACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAGCAAAGCAGA  
CTACGAGAAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCCTGAGYTYGC  
CCGTACAAAGAGCTAACAGGGAGAGTGTAA

**FIG. 11.**

RSAVVTQESALTTSPGETVLTCSRSSIGAVTTSNYANWVQEKPDLHLFTGLIGGTNNR  
APGVPARFSGSLIGDKAALTITGAQTEDEARYFCALWYSCLWVFGGGTKLTVLSRTV  
AAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQD  
SKDSTYSLSSLTLSKADYEHKVYACEVTHQGLSXPVTKSFNRGEC

**FIG. 12.**

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RSAVVTQESALTTSPGETVLTCSRSSIGAVTTSNYANWVQEKPDLHLFTGLIGGTNNR  
APGVPARFSGSLIGDKAALTITGAQTEDEARYFCALWYSNLWVFGGGTKLTVLSRTV  
AAPSVFIFPPSDEQLKSGTASVVCLNNFYPREAKVQWKVDNALQSGNSQESVTEQD  
SKDSTYSLSSLTLSKADYEKHKVYACEVTHQGLSXPVTKSFNRGEC

**FIG. 13.**

RSAVVTQESALTTSPGETVLTCSRSSIGAVTTSNYANWVQEKPDLHLFTGLIGGTNNR  
APGVPARFSGSLIGDKAALTITGAQTEDEARYFCALWYCNLWVFGGGTKLTVLSRTV  
AAPSVFIFPPSDEQLKSGTASVVCLNNFYPREAKVQWKVDNALQSGNSQESVTEQD  
SKDSTYSLSSLTLSKADYEKHKVYACEVTHQGLSXPVTKSFNRGEC

**FIG. 14.**

RSEVTLVEGRGDSVKPGGSLKLSCAASGFTLSGETMSWVRQTPEKRLEWVATTLSGG  
GFTFYSASVKGRFTISRDN  
AQNNLYLQLNSLRSEDTALYFCASHRFVHWGHGLTVSAAKTPPSVFPLAPSSKS  
TSGGTAALGCLVKDYFPEP  
VTVSWNSGALTSGVHTFPAVLQSSRLYFLSSVVTVPFNSLGTQTYICNVNHKPSNTK  
VDKKAEPKSCDKSRGPFEG  
KPIPNPLLGLDSTRTGHHHHHH

**FIG. 15.**

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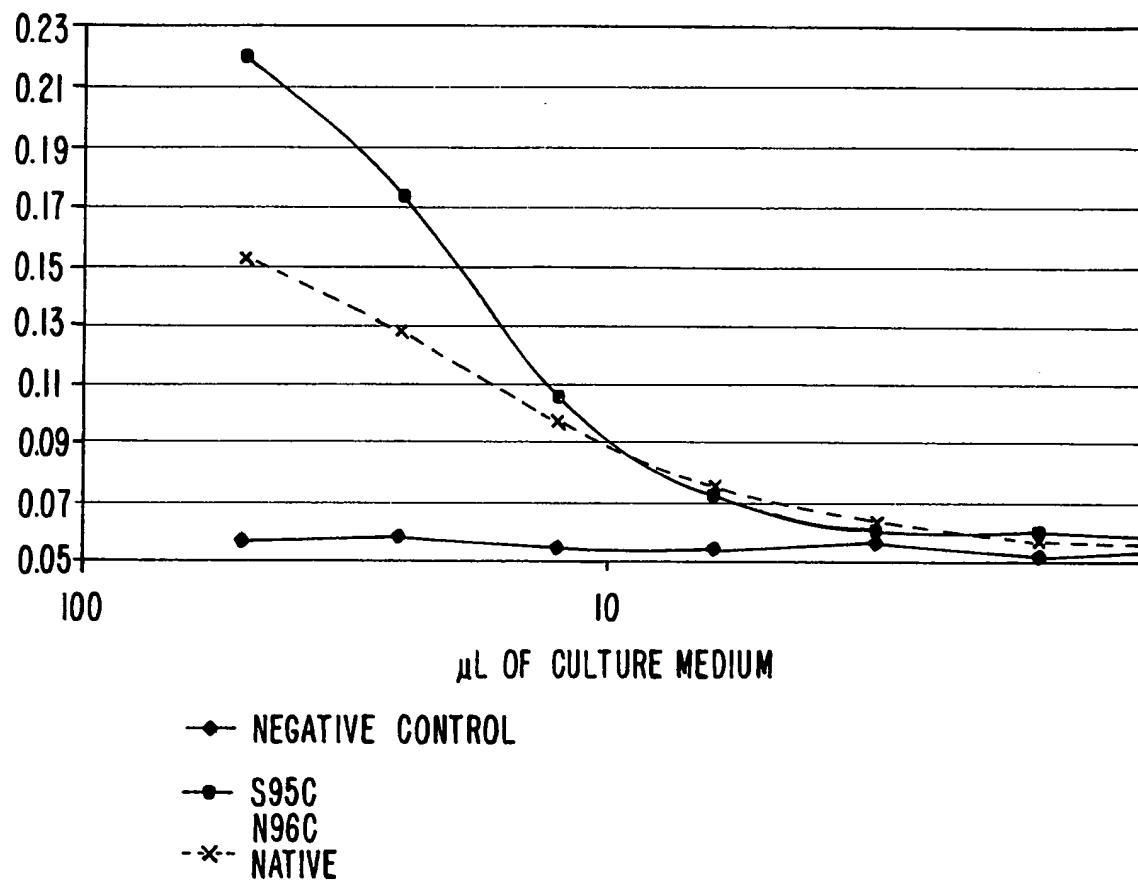
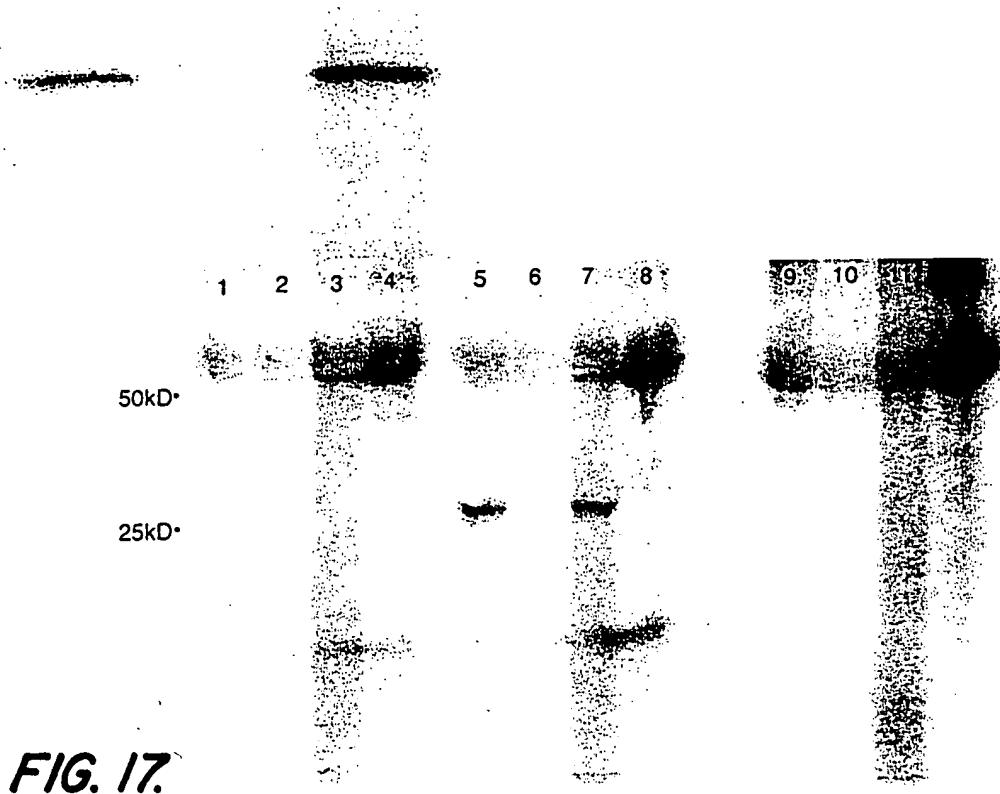
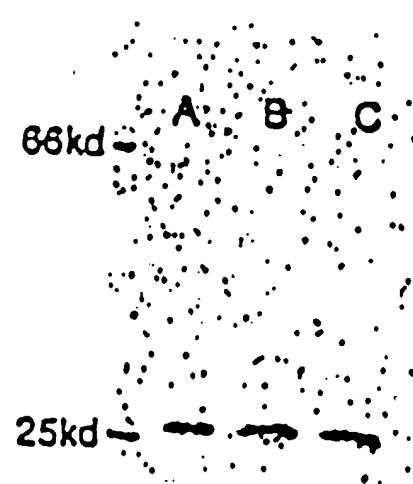


FIG. 16.

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**FIG. 17.**



**FIG. 18.**

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